A·H				
1131	Application No.	Applicant(s)		
	10/688,439	DOAN ET AL.	DOAN ET AL	
Notice of Allowability	Examiner	Art Unit		
	David S. Blum	2813		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in i) or other appropriate communication is sommunication is sommunication is sommer.	this application. If not incluinication will be mailed in du	ded e course. <b>THIS</b>	
1. This communication is responsive to 6/29/05.				
2. 🔀 The allowed claim(s) is/are 64-68.				
3. ☑ The drawings filed on 16 October 2003 are accepted by t	he Examiner.			
<ul> <li>4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ul>	ve been received. ve been received in Applicatio	n No	cation from the	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the re	equirements	
5. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gives			NOTICE OF	
<ul> <li>6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") muse</li> <li>(a) ☐ including changes required by the Notice of Draftspe</li> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examine</li> </ul>	rson's Patent Drawing Review	,		
Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ne back) of	
DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATE	ERIAL must be submitted.	Note the	
Attachment(s)  1. Notice of References Cited (PTO-892)	E   Nation of tot	formal Datant Application (D)	TO 152\	
<ol> <li>Notice of References Cited (PTO-992)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		formal Patent Application (P? ummary (PTO-413),	10-152)	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB	Paper No./	Mail Date Amendment/Comment		

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

of Biological Material

 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 6/29/05
 4. ☐ Examiner's Comment Regarding Requirement for Deposit

9. Other \_\_\_\_.

8. 

Examiner's Statement of Reasons for Allowance

Application/Control Number: 10/688,439 Page 2

Art Unit: 2813

This action is in response to the RCE filed 6/29/05.

Reasons for Allowance

1. Claims 64-68 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Claim 64 limits the formation of a trench isolation to filling a trench with an initially liquid deposition and subsequently depositing an initially solid material within the trench. This limitation, in combination with the other limitations of claim 64is not taught or suggested by the prior art of record. Iyer (US006455394B1) fills the trench with an initially liquid fill, but does not teach or suggest filling a trench with an initially liquid deposition and subsequently depositing an initially solid material within the trench. Iba (US005883006A) also fills the trench with an initially liquid fill, but does not teach or suggest filling a trench with an initially liquid deposition and subsequently depositing an initially solid material within the trench. Beekmann (Sub-Micron Gap Fill...), McClatchie (Low Dielectric Constant Flowfill...), and Kiermasz (Planarisation for sub-Micron Devices...) teach filling a gap with an initially liquid deposition material, but do not teach or suggest filling a trench with an initially liquid deposition and subsequently depositing an initially solid material within the trench.

Claims 65-68 are allowed as being properly dependent upon allowed claim 64.

Application/Control Number: 10/688,439

Art Unit: 2813

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Page 3

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David S. Blum whose telephone number is (571)-272-

1687) and e-mail address is <a href="mailto:David.blum@USPTO.gov">David.blum@USPTO.gov</a>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr., can be reached at (571)-272-1702. Our facsimile number all patent correspondence to be entered into an application is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David S. Blum

July 19, 2005